

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 03/11499

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 F25D17/04 F24F13/10 F16K3/08

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 F25D F24F F16K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 2 488 500 A (ATTANE DANIELLE) 19 February 1982 (1982-02-19) page 6, line 7 -page 7, line 29; figures 5-7 ---	1,2
Y	WO 02 16843 A (BPL REFRIGERATION LTD ;CHITTAMPALLI SURYAPRAKASH (IN); MURTHY RAMG) 28 February 2002 (2002-02-28) claims 1-3; figures 3,4 ---	1-3,6
Y	US 4 920 758 A..(JANKE DONALD E ET AL) 1 May 1990 (1990-05-01) column 4, line 49 -column 8, line 17; figures 3-5 ---	1-3,6
A		5,11,13
		-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

2 February 2004

Date of mailing of the international search report

10/02/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax (+31-70) 340-3016

Authorized officer

Boets, A

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 03/11499

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 013, no. 360 (M-858), 11 August 1989 (1989-08-11) -& JP 01 118317 A (TOYO KINZOKU KK), 10 May 1989 (1989-05-10) abstract; figures 2-7	1-4
A	DE 198 06 041 A (BOSCH SIEMENS HAUSGERAETE) 19 August 1999 (1999-08-19) column 6, line 22 -column 8, line 16; figures 1-3	1-3, 11, 13
A	US 3 952 542 A (BERKOWITZ IRVING L) 27 April 1976 (1976-04-27) column 5, line 56 -column 6, line 18; figures 1-5	12
A	DE 79 24 975 U (KESSLER & LUCH GMBH) 19 June 1987 (1987-06-19)	
A	US 6 240 735 B1 (STARENCHAK ROBERT W ET AL) 5 June 2001 (2001-06-05)	

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/ 03/11499

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
FR 2488500	A	19-02-1982	FR JP	2488500 A1 57037677 A	19-02-1982 02-03-1982	
WO 0216843	A	28-02-2002	WO AU	0216843 A1 1883101 A	28-02-2002 04-03-2002	
US 4920758	A	01-05-1990	NONE			
JP 01118317	A	10-05-1989	JP JP	1634601 C 2060412 B	20-01-1992 17-12-1990	
DE 19806041	A	19-08-1999	DE BG BR CN DE WO EP HU PL TR	19806041 A1 104659 A 9907891 A 1290335 T 59901443 D1 9941556 A1 1055089 A1 0102108 A2 342118 A1 200002192 T2	19-08-1999 30-03-2001 17-10-2000 04-04-2001 20-06-2002 19-08-1999 29-11-2000 28-10-2001 21-05-2001 21-12-2000	
US 3952542	A	27-04-1976	CA DE FR GB JP JP JP	1031210 A1 2506247 A1 2295329 A1 1517918 A 1123599 C 51063057 A 57010343 B	16-05-1978 26-05-1976 16-07-1976 19-07-1978 30-11-1982 01-06-1976 25-02-1982	
DE 7924975	U	19-06-1987	DE	7924975 U1	19-06-1987	
US 6240735	B1	05-06-2001	NONE			